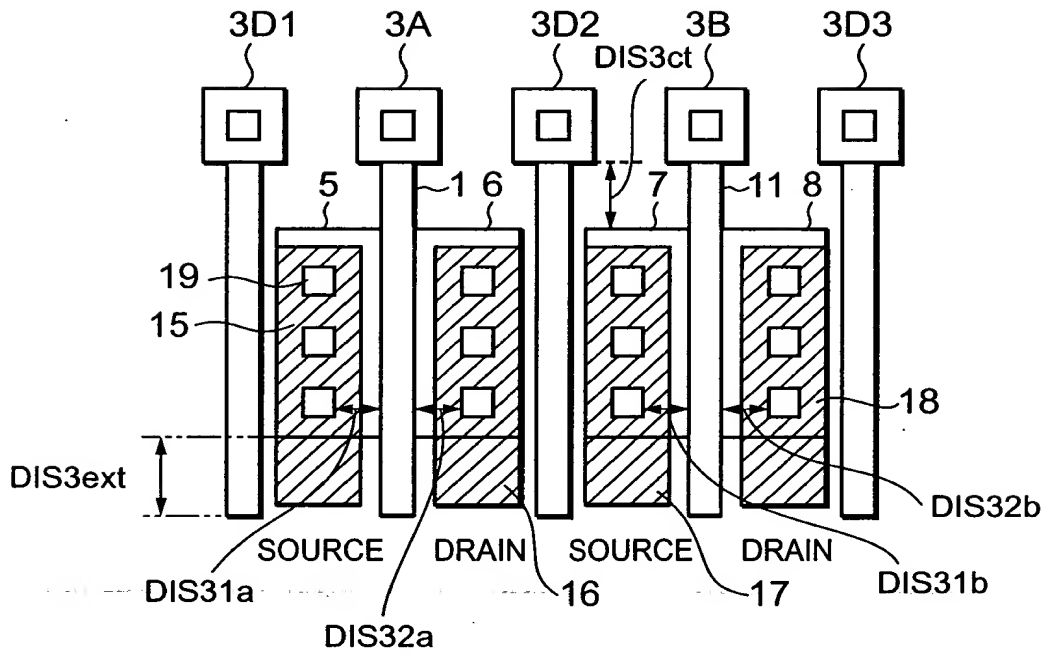


Fig.1



APPROVED	O.G. FIG.	
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Fig.2

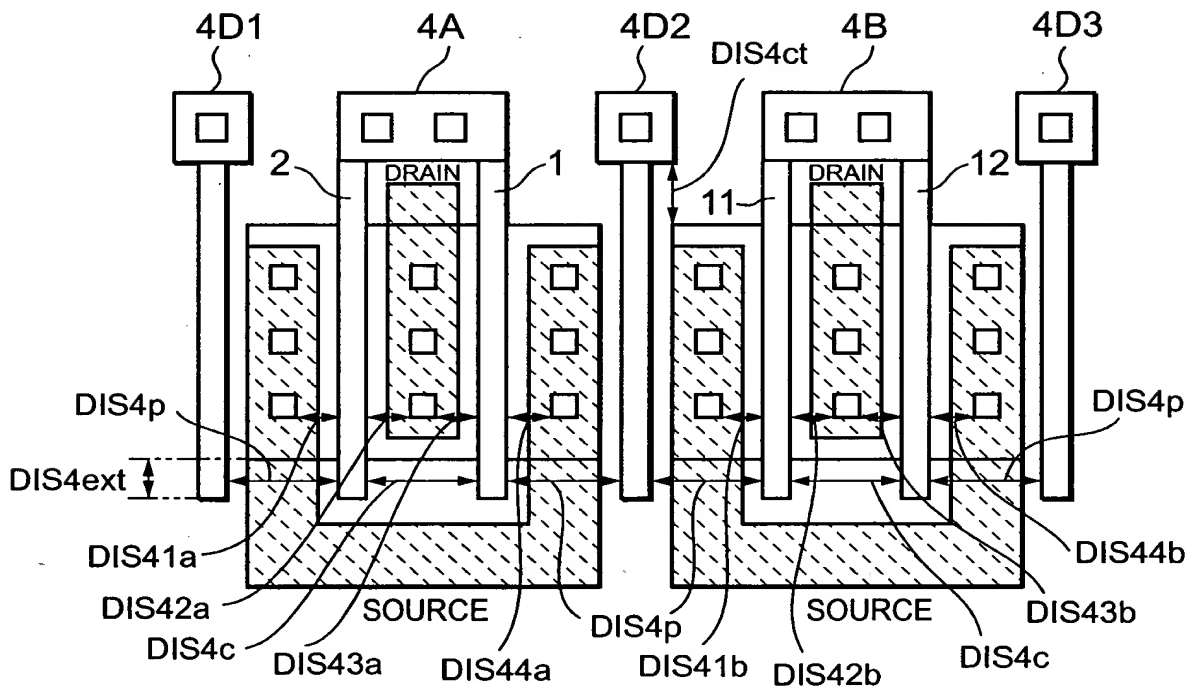
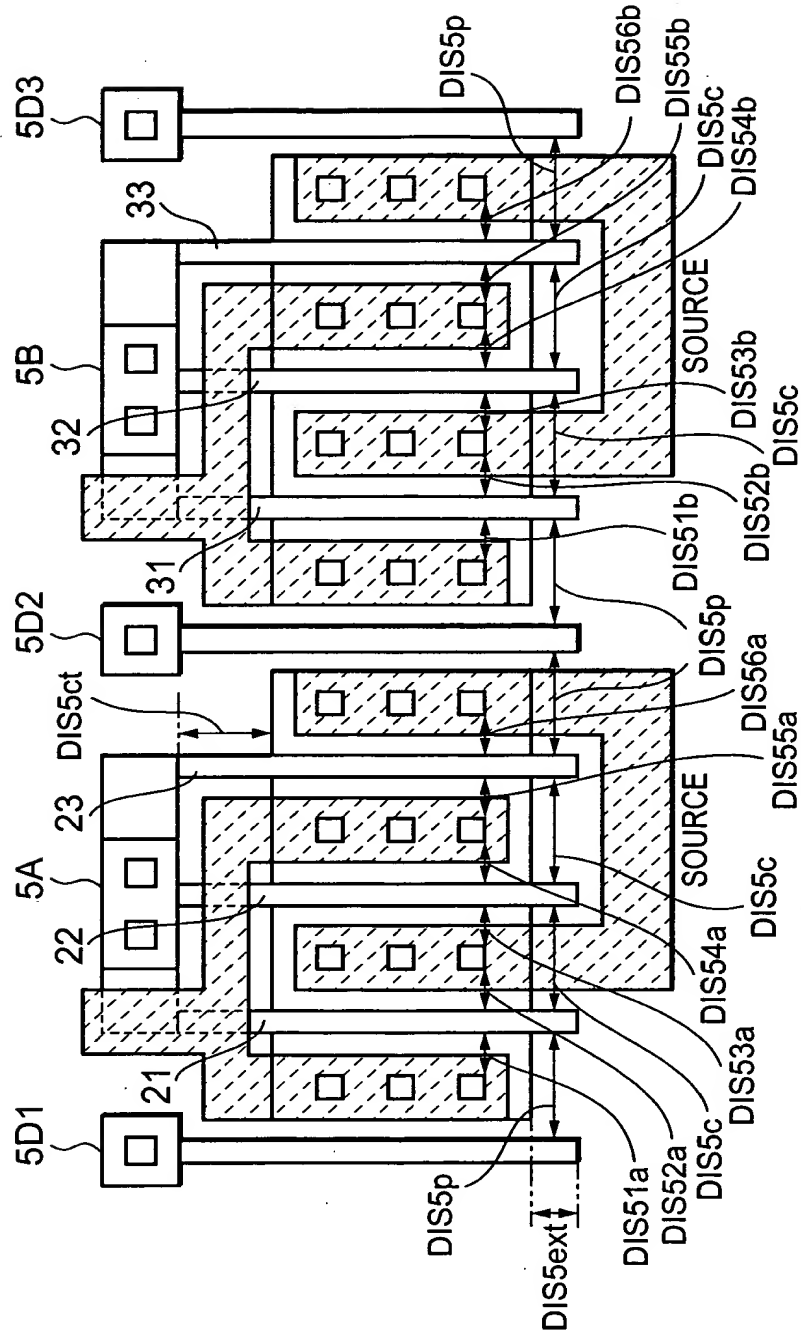


Fig.3



APPROVED	O.G. FIG.	
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Fig.4

[TABLE 1] EXPECTED  $W=10\mu m$   
DISPERSION( $\Delta W=0.2\mu m$ )  
<AS ESTIMATED>

NUMBER OF GATES	(a) MASK-DESIGN VALUE	(b) DISPERSION ( $\Delta W$ )	(c) ACTUAL GATE WIDTH	(d) SUM OF ACTUAL GATE WIDTHS
1	10.2	0.2	10	10
2	5.2	↓	5	10
3	3.54	↓	3.34	10.02
4	2.7	↓	2.5	10
5	2.2	↓	2	10
6	1.87	↓	1.67	10.02

[TABLE 2] EXPECTED  $W=15\mu m$   
DISPERSION( $\Delta W=0.2\mu m$ )  
<AS ESTIMATED>

NUMBER OF GATES	(a) MASK-DESIGN VALUE	(b) DISPERSION ( $\Delta W$ )	(c) ACTUAL GATE WIDTH	(d) SUM OF ACTUAL GATE WIDTHS
1	15.2	0.2	15	15
2	7.7	↓	7.5	15
3	5.2	↓	5	15
4	3.96	↓	3.76	15.04
5	3.2	↓	3	15
6	2.7	↓	2.5	15

[TABLE 3] EXPECTED  $W=10\mu m$   
DISPERSION( $\Delta W=0\mu m$ )  
<ESTIMATION  $\Delta W=0.2\mu m$ >

NUMBER OF GATES	(a) MASK-DESIGN VALUE	(b) DISPERSION ( $\Delta W$ )	(c) ACTUAL GATE WIDTH	(d) SUM OF ACTUAL GATE WIDTHS
1	10.2	0	10.2	10.2
2	5.2	↓	5.2	10.4
3	3.54	↓	3.54	10.64
4	2.7	↓	2.7	10.8
5	2.2	↓	2.2	11
6	1.87	↓	1.87	11.22

[TABLE 4] EXPECTED  $W=15\mu m$   
DISPERSION( $\Delta W=0\mu m$ )  
<ESTIMATION  $\Delta W=0.2\mu m$ >

NUMBER OF GATES	(a) MASK-DESIGN VALUE	(b) DISPERSION ( $\Delta W$ )	(c) ACTUAL GATE WIDTH	(d) SUM OF ACTUAL GATE WIDTHS
1	15.2	0	15.2	15.2
2	7.7	↓	7.7	15.4
3	5.2	↓	5.2	15.6
4	3.96	↓	3.96	15.84
5	3.2	↓	3.2	16
6	2.7	↓	2.7	16.2

[TABLE 5] EXPECTED  $W=10\mu m$   
DISPERSION( $\Delta W=0.4\mu m$ )  
<ESTIMATION  $\Delta W=0.2\mu m$ >

NUMBER OF GATES	(a) MASK-DESIGN VALUE	(b) DISPERSION ( $\Delta W$ )	(c) ACTUAL GATE WIDTH	(d) SUM OF ACTUAL GATE WIDTHS
1	10.2	0.4	9.8	9.8
2	5.2	↓	4.8	9.6
3	3.54	↓	3.14	9.42
4	2.7	↓	2.3	9.2
5	2.2	↓	1.8	9
6	1.87	↓	1.47	8.82

[TABLE 6] EXPECTED  $W=15\mu m$   
DISPERSION( $\Delta W=0.4\mu m$ )  
<ESTIMATION  $\Delta W=0.2\mu m$ >

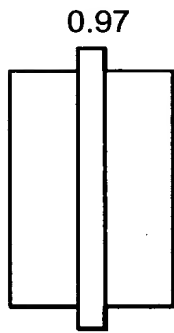
NUMBER OF GATES	(a) MASK-DESIGN VALUE	(b) DISPERSION ( $\Delta W$ )	(c) ACTUAL GATE WIDTH	(d) SUM OF ACTUAL GATE WIDTHS
1	15.2	0.4	14.8	14.8
2	7.7	↓	7.3	14.6
3	5.2	↓	4.8	14.4
4	3.96	↓	3.56	14.24
5	3.2	↓	2.8	14
6	2.7	↓	2.3	13.8

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
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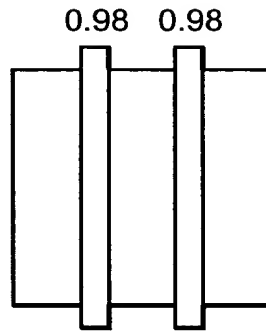
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Fig.5

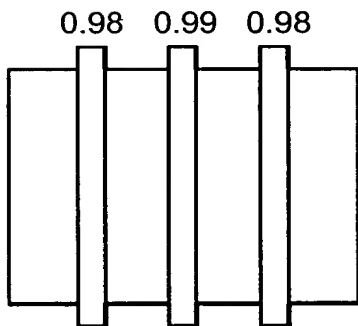
L MASK=1.0  $\mu$ m VS ACTUAL SIZE L POLY



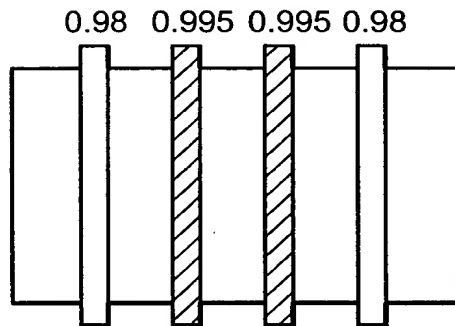
AVE 0.97(-3%)



AVE 0.98(-2%)

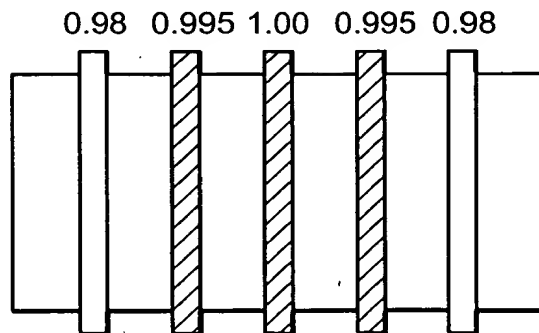


AVE 0.983(-1.7%)



AVE 0.9875(-1.25%)

AVE 0.995(-0.5%)



AVE 0.997(-0.3%)

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Fig.6

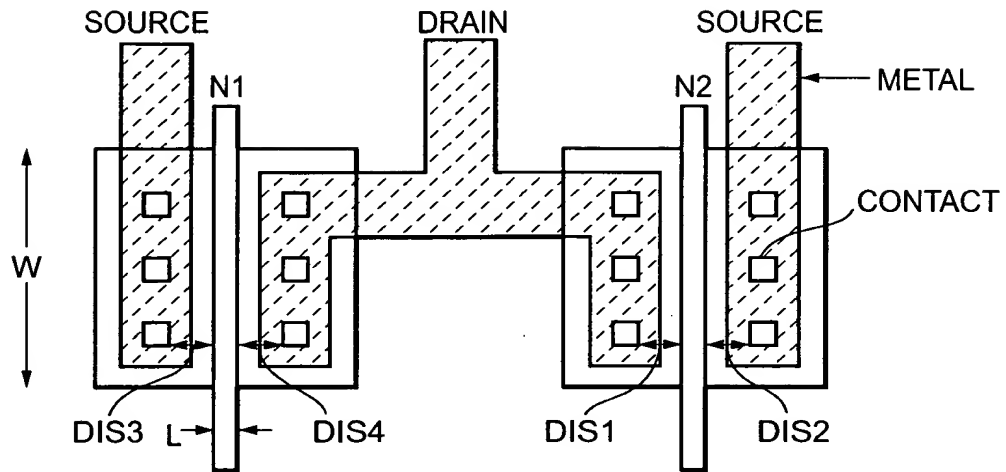


Fig.7

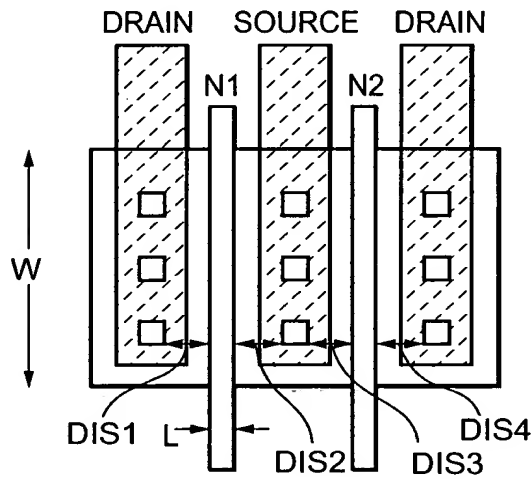


Fig.8

